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1 Interactive presentation: Automatic model generation for black box realtime systems

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Thomas Huining Feng, Lynn Wang, Wei Zheng, Sri Kanajan, Sanjit A. Seshia April 2007 DATE '07: Proceedings of the conference on Design, automation and test in Europe

Publisher: EDA Consortium

Full text available: 📆 pdf(224.87 KB) Additional Information: full citation, abstract, references

Embedded systems are often assembled from black box components. System-level analyses, including verification and timing analysis, typically assume the system description, such as RTL or source code, as an input. There is therefore a need to automatically ...

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View-dependent progressive mesh using non-redundant DAG hierarchy

Zhi Zheng, Tony K. Y. Chan

November 2005 GRAPHITE '05: Proceedings of the 3rd international conference on Computer graphics and interactive techniques in Australasia and South East Asia

Publisher: ACM

Full text available: pdf(264.54 KB) Additional Information: full citation, abstract, references,

We propose a non-redundant DAG hierarchy for view-dependent multiresolution mesh for client-server based online browsing of triangle mesh models. The multiresolution hierarchy and the selectively refined mesh for rendering are two relatively independent ...

Keywords: level of detail, multiresolution mesh, view-dependent refinement

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A delta-driven execution model for semantic computing

Roly Perera, Jeff Foster, György Koch

October 2005 OOPSLA '05: Companion to the 20th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages,

and applications

Publisher: ACM

Additional Information: full citation,

Full text available: pdf(359,65 KB) mov(29:0 MIN)

abstract, references, cited by, index terms

We describe (and demonstrate) the execution model of a computing platform where computation is both *incremental* and *data-driven*. We call such an approach *delta-driven*. The platform is intended as a delivery vehicle for semantically ...

**Keywords**: adaptive functions, delta-driven execution, incremental computation, lazy memoization, relational programming

4 Portable resource control in Java

Walter Binder, Jane G. Hulaas, Alex Villazón

October 2001 **OOPSLA '01:** Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications

Publisher: ACM

Full text available: pdf(307.08 KB) Additional Information: full citation, abstract, references, cited by, index terms

Preventing abusive resource consumption is indispensable for all kinds of systems that execute untrusted mobile coee, such as mobile object sytems, extensible web servers, and web browsers. To implement the required defense mechanisms, some support for ...

**Keywords**: Java, bytecode rewriting, micro-kernels, mobile object systems, resource control, security

5 Using model checking to find serious file system errors

Junfeng Yang, Paul Twohey, Dawson Engler, Madanlal Musuvathi
November 2006 ACM Transactions on Computer Systems (TOCS), Volume 24
Issue 4

Publisher: ACM

Full text available: pdf(534.00 KB) Additional Information: full citation, abstract, references, index terms

This article shows how to use model checking to find serious errors in file systems. Model checking is a formal verification technique tuned for finding corner-case errors by comprehensively exploring the state spaces defined by a system. File systems ...

**Keywords**: Model checking, crash, file system, journaling, recovery

6 Multiversion-based view maintenance over distributed data sources

Songting Chen, Bin Liu, Elke A. Rundensteiner

December 2004 ACM Transactions on Database Systems (TODS), Volume 29
Issue 4

Publisher: ACM

Additional Information: full citation, appendices and

Full text available: pdf(480.72 KB)

Supplements, abstract, references, cited by, index terms, review

Materialized views can be maintained by submitting maintenance queries to the data sources. However, the query results may be erroneous due to concurrent source updates. State-of-the-art maintenance strategies typically apply compensations to resolve ...

**Keywords**: View maintenance, transaction processing

A technical architecture for enforcing usage control requirements in



# service-oriented architectures

Agreiter Berthold, Muhammad Alam, Ruth Breu, Michael Hafner, Alexander Pretschner, Jean-Pierre Seifert, Xinwen Zhang

November 2007 SWS '07: Proceedings of the 2007 ACM workshop on Secure web services

Publisher: ACM

Full text available: pdf(647.83 KB) Additional Information: full citation, abstract, references,

We present an approach to modeling and enforcing usage control requirements on remote clients in service-oriented architectures. Technically, this is done by leveraging a trusted software stack relying on a hardwarebased root of trust and a trusted ...

**Keywords**: SOA, access control, policies, trusted computing, usage control

8 A model of OASIS role-based access control and its support for active



security

Jean Bacon, Ken Moody, Walt Yao

November 2002 ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 4

Publisher: ACM

Additional Information: full citation, abstract, references, Full text available: pdf(352.06 KB) cited by, index terms

OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, rolebased access control, service-level agreements

9 Specification and verification of security requirements in a programming



model for decentralized CSCW systems Tanvir Ahmed, Anand R. Tripathi

May 2007 ACM Transactions on Information and System Security (TISSEC), Volume 10 Issue 2

Publisher: ACM

Full text available: pdf(746.89 KB) Additional Information: full citation, abstract, references,

We present, in this paper, a role-based model for programming distributed CSCW systems. This model supports specification of dynamic security and coordination requirements in such systems. We also present here a modelchecking methodology for verifying ...

**Keywords**: Security policy specification, finite state-based model checking, methodology for access-control policy design, role-based access control

10 Representation independence, confinement and access control

[extended abstract]

Anindya Banerjee, David A. Naumann

January 2002 POPL '02: ACM SIGPLAN Notices, Volume 37 Issue 1

Publisher: ACM

Additional Information: full citation, abstract, references, Full text available: 🔁 pdf(262.80 KB)

Denotational semantics is given for a Java-like language with pointers, subclassing and dynamic dispatch, class oriented visibility control, recursive types and methods, and privilege-based access control. Representation independence (relational parametricity) ...

#### 11 Providing high-level control and expert assistance in the user interface

presentation design

Won Chul Kim, James D. Foley

May 1993 CHI '93: Proceedings of the INTERACT '93 and CHI '93 conference on Human factors in computing systems

Publisher: ACM

Full text available: pdf(918.49 KB) Additional Information: full citation, abstract, references, cited by, index terms

Current user interface builders provide only low-level assistance, because they have knowledge of neither the application, nor the principles by which interface elements are combined effectively. We have developed a framework that unites the knowledge ...

Keywords: UI design process, automatic layout, knowledge-based tool

#### 12 A historical perspective on runtime assertion checking in software

development

Lori A. Clarke, David S. Rosenblum

May 2006 ACM SIGSOFT Software Engineering Notes, Volume 31 Issue 3 Publisher: ACM

Full text available: pdf(473.68 KB) Additional Information: full citation, abstract, references,

This report presents initial results in the area of software testing and analysis produced as part of the Software Engineering Impact Project. The report describes the historical development of runtime assertion checking, including a description of the ...

## 13 A framework for concrete reputation-systems with applications to history-

based access control

Karl Krukow, Mogens Nielsen, Vladimiro Sassone

November 2005 CCS '05: Proceedings of the 12th ACM conference on Computer and communications security

Publisher: ACM

Additional Information: full citation, abstract, references, Full text available: Tpdf(257.53 KB)

In a reputation-based trust-management system, agents maintain information about the past behaviour of other agents. This information is used to guide future trust-based decisions about interaction. However, while trust management is a component in security ...

**Keywords**: history-based access control, model checking, reputation, temporal logic, trust management

14 Discretionary access control with the administrative role graph model He Wang, Sylvia L. Osborn June 2007 SACMAT '07: Proceedings of the 12th ACM symposium on Access

control models and technologies

Publisher: ACM

Full text available: pdf(188.43 KB) Additional Information: full citation, abstract, references,

Previous research examining the mapping of discretionary access control (DAC) to role-based access control (RBAC) has considered neither ownership nor further granting of privileges. We show how to accomplish this by mapping from a relational database ...

Keywords: DAC, role graph model, role-based access control

### 15 Control-flow integrity

Martín Abadi, Mihai Budiu, Úlfar Erlingsson, Jay Ligatti November 2005 CCS '05: Proceedings of the 12th ACM conference on Computer and communications security

Publisher: ACM

Additional Information: full citation, abstract, references, Full text available: pdf(218.60 KB) cited by, index terms

Current software attacks often build on exploits that subvert machine-code execution. The enforcement of a basic safety property, Control-Flow Integrity (CFI), can prevent such attacks from arbitrarily controlling program behavior. CFI enforcement is ...

**Keywords**: binary rewriting, control-flow graph, inlined reference monitors, vulnerabilities

#### Model Checking Implicit-Invocation Systems

David Garlan, Serge Khersonsky

November 2000 IWSSD '00: Proceedings of the 10th International Workshop on Software Specification and Design

Publisher: IEEE Computer Society

Full text available: pdf(134.08 KB) Publisher Site Additional Information: full citation, abstract, cited by

While implicit invocation (publish-subscribe) systems have good engineering properties, they are difficult to reason about and to test. Model checking such systems is an attractive alternative. However, it is not clear what kinds of state models are ...

Keywords: Implicit invocation, publish-subscribe, model checking

## 17 Model-carrying code: a practical approach for safe execution of untrusted

applications

R. Sekar, V.N. Venkatakrishnan, Samik Basu, Sandeep Bhatkar, Daniel C.

December 2003 SOSP '03: ACM SIGOPS Operating Systems Review, Volume 37 Issue 5

Publisher: ACM

Full text available: pdf(301.30 KB) Additional Information: full citation, abstract, references, cited by, index terms

This paper presents a new approach called model-carrying code (MCC) for safe execution of untrusted code. At the heart of MCC is the idea that untrusted code comes equipped with a concise high-level model of its security-relevant behavior. This ...

**Keywords**: mobile code security, policy enforcement, sand-boxing, security policies

#### 18 A model-driven approach to performability analysis of dynamically

reconfigurable component-based systems

Vincenzo Grassi, Raffaela Mirandola, Antonino Sabetta

February 2007 **WOSP '07:** Proceedings of the 6th international workshop on Software and performance

Publisher: ACM

Full text available: pdf(420.26 KB) Additional Information: full citation, abstract, references, index terms

Dynamic reconfiguration techniques appear promising to build component-based (C-B) systems for application domains that have strong adaptability requirements, like the mobile and the service-oriented computing domains. However, introducing dynamic reconfiguration ...

**Keywords**: dynamic reconfiguration, model-driven development, performability

#### 19 Applying model-integrated computing to component middleware and

enterprise applications

Aniruddha Gokhale, Douglas C. Schmidt, Balachandran Natarajan, Nanbor Wang October 2002 **Communications of the ACM**, Volume 45 Issue 10 **Publisher:** ACM

Full text available: pdf(144,29 KB) html(46.13 KB)

Additional Information: full citation,

<u>abstract</u>, <u>references</u>, <u>cited</u> <u>by</u>, index terms

Combining the best elements of these two technologies can address the key challenges associated with developing enterprise applications.

### 20 A dynamic information flow model of secure systems

Jianjun Shen, Sihan Qing

March 2007 **ASIACCS '07:** Proceedings of the 2nd ACM symposium on Information, computer and communications security

Publisher: ACM

Full text available: pdf(221.81 KB) Additional Information: full citation, abstract, references, index terms

We characterize the information flow features of an information system in a state machine model, which emphasizes on the subject properties of information flows. We ague that the legality of a flow mainly depends on the subjects exploit it rather than ...

Keywords: access control, covert channel, information flow, security policy

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Watson, G.R.; Debardeleben, N.A.;

Cluster Computing, 2006 IEEE International Conference on

25-28 Sept. 2006 Page(s):1 - 11

Digital Object Identifier 10.1109/CLUSTR.2006.311883

AbstractPlus | Full Text: PDF(11658 KB) IEEE CNF

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2. Humanoid motion generation system on HRP2-JSK for daily life environment

Okada, K.; Ogura, T.; Haneda, A.; Fujimoto, J.; Gravot, F.; Inaba, M.; Mechatronics and Automation, 2005 IEEE International Conference Volume 4, 29 July-1 Aug. 2005 Page(s):1772 - 1777 Vol. 4

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